

REMARKS

This Supplemental Preliminary Amendment is being filed to submit amendments and information in any other manner indicated below.

PENDING CLAIMS

Original Claims 1-12 are cancelled herein without prejudice or disclaimer of any scope or subject matter. Appropriate claims have been added in order to adjust a clarity and/or focus of Applicant's claimed invention. That is, such changes are unrelated to any prior art or scope adjustment, and are simply refocused claims in which Applicant is presently interested. At entry of this paper, Claims 13-33 will be pending for further consideration and examination in the application.

Applicant's presently claimed invention is directed to arrangements which include an element for detecting optical point control signal such as focusing error, tracking error and information recorded in the disk, by using two semiconductor laser chips pasted onto one substrate where optical detectors are formed. Such is an effective for achieving downsizing of an optical head. In a two wavelength laser module for obtaining optical point controlling signal, for example, laser light reflected from a disk is divided into a plurality of fluxes by utilizing a diffraction grating having a special grating pattern to diffract, so as to focus the divided light onto one(s) of the optical detectors which are disposed in close proximity to the original light emitting points.

In general, there is the following relation among the diffracting angle of laser light θ , pitch P of diffraction grating and wavelength:

$$P \times \sin \theta = \lambda.$$

In the case of a two wavelength laser module, in which two laser light flux of different frequencies are passed through the same diffraction grating, the diffraction angle to each frequency becomes larger as the wavelength becomes longer. Accordingly, the longer the wavelength of the laser light, the farther the position that is focused from the light emitting point. It is disclosed in the specification that by adjusting light emitting points distances in considering focusing position offset in accordance to the difference of the wavelength, the light flux of different wavelength can be focused into the same position or focused in close proximity. By this structure of this invention, the number of optical detectors in two-wavelength laser module can be decreased, thereby achieving a downsizing of the module.

RESERVATION OF RIGHTS

It is respectfully submitted that any and all claim amendments and/or cancellations submitted within this paper and throughout prosecution of the present application are without prejudice or disclaimer. Further, Applicant respectfully reserves all rights to file subsequent related application(s) (including reissue applications) directed to any/all previously claimed limitations/features which have been subsequently amended or cancelled, or to any/all limitations/features not yet claimed, *i.e.*, Applicant continues (indefinitely) to maintain no intention or desire to dedicate or surrender any limitations/features of subject matter of the present application to the public.

EXAMINER INVITED TO CALL

The Examiner is courteously invited to telephone the undersigned attorney at the local DC area number of 703-312-6600, to discuss an Examiner's Amendment or

any other action which would expedite prosecution and bring the present application into condition for allowance.

CONCLUSION

This Supplemental Preliminary Amendment is being filed within three months of the present divisional application, and is therefore timely (no Petition or extension of time is possible). Please charge any actual fees due in connection with the filing of this paper to ATS&K Deposit Account No. 01-2135 (as Case No. 500.38285VX1).

Respectfully submitted,



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